This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of claims:

Claims 1-55 (Cancelled)

56. (new) A method for the proliferation and delivery of anaerobic cells, tissue cultures

and/or microorganisms including the steps of:

(a) disposing an inoculum in an anaerobic inoculation chamber;

(b) disposing a growth medium for the inoculum in an anaerobic proliferation chamber

which is separated from the inoculation chamber by an openable separating means;

(c) storing the inoculum and uninoculated growth medium separated;

(d) opening the separating means to inoculate the growth medium;

(e) allowing the cells, tissue cultures and/or microorganisms to proliferate under

anaerobic conditions in the proliferation chamber to form a proliferated culture; and

(f) dispensing the proliferated culture from the proliferation chamber,

the method being characterised in that the step of opening the separating means takes

place without compromising the anaerobiosis of the inside of the chambers, and in that

the steps of disposing, storing, inoculating, opening, and proliferation take place under

anaerobic and aseptical conditions.

57. (new) A method according to claim 56 wherein the inoculum is provided in a form

which is stable and viable beyond the normal life-span of a conventional culture in a

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closed container.

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58. (new) A method according to claim 56 which includes the further step of rendering

the separating means and inside of the proliferation chamber sterile prior to the step

of disposing the inoculum and growth medium in the respective chambers.

59. (new) A method according to claim 56 which includes the further step of

controlling and adjusting proliferation conditions of the inoculated growth medium.

60. (new) A unitary disposable and portable anaerobic cell, tissue and/or

microorganism proliferation and delivery apparatus comprising at least one anaerobic

proliferation chamber for containing a growth medium; at least one anaerobic

inoculation chamber for containing an inoculum; and means for separating the

proliferation and inoculation chambers, the separating means being openable to

connect the insides of the chambers to each other, without compromising the

anaerobiosis of the inside of the chambers, to inoculate the growth medium with the

inoculum, to allow proliferation of the said cell, tissue and/or microorganism under

anaerobic and aseptic conditions, wherein the inoculum is provided in a form which is

stable and viable beyond the normal life-span of a conventional culture in a closed

container.

61. (new) Apparatus according to claim 60, wherein the arrangement is such that the

inoculum and growth medium are stored and transported separated from each other in

the apparatus, until such time as a proliferated culture is to be applied, whereupon the

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300 South Wacker Drive

Chicago, Illinois 60606

growth medium is inoculated and proliferation allowed to take place, whereafter the

proliferated culture is dispensed from the apparatus.

62. (new) Apparatus according to claim 60 wherein the separating means and inside of

the proliferation chamber are rendered sterile prior to inoculation.

63. (new) Apparatus according to claim 60 wherein the inoculation chamber is also

anaerobic.

64. (new) Apparatus according to claim 60 which is totally enclosed and hermetically

sealed.

65. (new) Apparatus according to claim 60 wherein the chambers are connected to

each other via a passage.

66. (new) Apparatus according to claim 65 wherein the separating means is in the form

of a septum.

67. (new) Apparatus according to claim 66 wherein the opening means is in the form

of a spike for piercing the septum.

68. (new) Apparatus according to claim 67 wherein the inoculation chamber is defined

by a vial-type container having a mouth which is connected to one end of the passage.

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69. (new) Apparatus according to claim 68 wherein the said septum covers the said

mouth.

70. (new) Apparatus according to claim 68 wherein the spike is mounted in the passage

directed at the septum, and wherein the inoculation chamber is connected to the said

one end of the passage via advancement means, the arrangement being further such

that, in use, the inoculation chamber is advanced inwardly towards the spike, until the

spike pierces the septum.

71. (new) Apparatus according to any one of claims 68 wherein the vial-type container

is flexible, the arrangement being such that, in use, the inoculation chamber is

compressed after the septum has been opened to inoculate the growth medium.

72. (new) Apparatus according to any one of claims 66 wherein the apparatus is

provided with urging means for urging the inoculum into the proliferation chamber

after the septum has been opened to inoculate the growth medium.

73. (new) Apparatus according to any one of claims 66 wherein there is a pressure

differentiation between the two chambers causing the inoculum to flow into the

proliferation chamber after the septum has been opened to inoculate the growth

medium.

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- 74. (new) Apparatus according to claim 60 which is provided with a port for connecting to a dosing or application means.
- 75. (new) Apparatus according to claim 74 wherein the arrangement is such that pressure, which builds up in the proliferation chamber during the anaerobic cultivation of the microorganism, urges the proliferated culture through the said port.
- 76. (new) Apparatus according to claim 60 wherein the proliferation chamber is defined or provided by a flexible infusion bag type container.
- 77. (new) Apparatus according to claim 60 wherein the proliferation chamber is in the form of a "carboy"- type container.
- 78. (new) Apparatus according to claim 60 which includes additional proliferation inoculation chambers connectable to the other chambers.

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